【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mrs. NIRMALA				
AGE/ GENDER	: 80 YRS/FEMALE		PATIENT ID	: 1662752	
COLLECTED BY	:		REG. NO./LAB NO.	: 122411060	005
REFERRED BY	:	REGISTRATION DATE		:06/Nov/2024	08:45 AM
BARCODE NO. : 12505470			COLLECTION DATE	:06/Nov/2024	08:59AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	ΤЕ	REPORTING DATE	:06/Nov/2024	04:17PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBAL	A CITY - HA	ARYANA		
Test Name		Value	Unit	Biolo	gical Reference interval
		HAEM	ATOLOGY		
	СОМР	LETE BL	OOD COUNT (CBC)		
RED BLOOD CELLS	S (RBCS) COUNT AND INDICES				
HAEMOGLOBIN (H by CALORIMETRIC	B)	10.8 ^L	gm/dL	12.0	- 16.0
RED BLOOD CELL (by HYDRO DYNAMIC F	RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	3.89	Millions	/cmm 3.50	- 5.00
PACKED CELL VOL	UME (PCV) UTOMATED HEMATOLOGY ANALYZER	32.8 ^L	%	37.0	- 50.0
MEAN CORPUSCUL	AR VOLUME (MCV) JUTOMATED HEMATOLOGY ANALYZER	84.3	KR fl	80.0	- 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.8	pg	27.0	- 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC)	33	g/dL	32.0	- 36.0
RED CELL DISTRIB	UTION WIDTH (RDW-CV)	13.3	%	11.00	0 - 16.00
RED CELL DISTRIB	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	42.2	fL	35.0	- 56.0
MENTZERS INDEX by calculated		21.67	RATIO	13.0	A THALASSEMIA TRAIT: < I DEFICIENCY ANEMIA:
GREEN & KING INI by CALCULATED	DEX	28.86	RATIO	BETA 65.0	A THALASSEMIA TRAIT:< I DEFICIENCY ANEMIA: >
WHITE BLOOD CE	LLS (WBCS)			03.0	
TOTAL LEUCOCYTE		7100	/cmm	4000	- 11000
DIFFERENTIAL LE	<u>UCOCYTE COUNT (DLC)</u>				
NEUTROPHILS		82 ^H	%	50 - 1	70

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) MBBS , MD (PATHOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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: Mrs. NIRMALA

NAME

PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mrs. NIRMALA			
AGE/ GENDER	: 80 YRS/FEMALE		PATIENT ID	: 1662752
COLLECTED BY	:		REG. NO./LAB NO.	: 122411060005
REFERRED BY	:		REGISTRATION DATE	: 06/Nov/2024 08:45 AM
BARCODE NO.	: 12505470		COLLECTION DATE	:06/Nov/202408:59AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	TUTE	REPORTING DATE	:06/Nov/202404:17PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES	RY BY SF CUBE & MICROSCOPY	12 ^L	%	20 - 40
EOSINOPHILS	RY BY SF CUBE & MICROSCOPY	0 ^L	%	1 - 6
MONOCYTES	RY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by FLOW CYTOMETR	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUK	OCYTES (WBC) COUNT			
ABSOLUTE NEUTH by flow cytometr	ROPHIL COUNT	5822	/cmm	2000 - 7500
ABSOLUTE LYMPH by FLOW CYTOMETR	HOCYTE COUNT RY BY SF CUBE & MICROSCOPY	852 ^L	KR /cmm	800 - 4900
ABSOLUTE EOSIN by flow cytometr	OPHIL COUNT RY BY SF CUBE & MICROSCOPY	0 ^L	/cmm	40 - 440
ABSOLUTE MONO	CYTE COUNT RY BY SF CUBE & MICROSCOPY	426	/cmm	80 - 880
ABSOLUTE BASOF by FLOW CYTOMETR	PHIL COUNT Ry by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT by hydro dynamic	' (PLT) FOCUSING, ELECTRICAL IMPEDENCE	149000 ^L	/cmm	150000 - 450000
PLATELETCRIT (P	,	0.22	%	0.10 - 0.36
MEAN PLATELET	FOCUSING, ELECTRICAL IMPEDENCE VOLUME (MPV) FOCUSING, ELECTRICAL IMPEDENCE	15 ^H	fL	6.50 - 12.0
PLATELET LARGE	CELL COUNT (P-LCC)	90000	/cmm	30000 - 90000
	CELL RATIO (P-LCR)	60.3 ^H	%	11.0 - 45.0
by HYDRO DYNAMIC	BUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.5	%	15.0 - 17.0
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD			



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) MBBS , MD (PATHOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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BARCODE NO.	: 12505470		ECTION DATE	: 06/Nov/2024 08:59AM	
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST		DRTING DATE	: 06/Nov/2024 04:48PM	
				. 00/ 100/ 2024 04.48PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMH	3ALA CITY - HARYAN	A		
Test Name		Value	Unit	Biological Reference inte	erval
GLYCOSYLATED HA	GLYCO AEMOGLOBIN (HbA1c):	SYLATED HAEMO 5.9	OGLOBIN (HBA10 %	2) 4.0 - 6.4	
WHOLE BLOOD by hplc (high perfo ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	122.63	mg/dL	60.00 - 140.00	
	AS PER AMERICAN D	IABETES ASSOCIATION	(ADA):		
-	REFERENCE GROUP	GLYCOS	YLATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years	DV	<5.7		
	t Risk (Prediabetes)		5.7 - 6.4		
D	liagnosing Diabetes		>= 6.5		
			Age > 19 Years		
Thorsport	is goals for alwaymic control	Goals of The		< 7.0	
rnerapeut	ic goals for glycemic control	Actions Sugg		>8.0	
		Goal of the	Age < 19 Years	<7.5	
		GOALOLINE	VUN	\$1.0	

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)



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: 12505470	СО	LLECTION DATE	:06/Nov/202408:59AM
: P.K.R JAIN HEALTHCARE INSTI	TUTE RE	PORTING DATE	:06/Nov/202405:23PM
: NASIRPUR, HISSAR ROAD, AMB	ALA CITY - HARYA	ANA	
	Value	Unit	Biological Reference interval
ERYTHRO	CYTE SEDIME	NTATION RATE (I	ESR)
DIMENTATION RATE (ESR)	80 ^H	mm/1st	hr 0 - 20
ATION BY CAPILLARY PHOTOMETRY			
in toot because an elevated requilt a	often indicates the	processo of inflormati	ion approxisted with infection, concerned out
rc lest because an elevated result c		presence or initiational	ion associated with infection, cancer and auto
does not tell the health practitione	er exactly where th	e inflammation is in the	ion associated with infection, cancer and auto body or what is causing it.
does not tell the health practitione cted by other conditions besides in	er exactly where th	e inflammation is in the	bically used in conjunction with other test suc
does not tell the health practitione cted by other conditions besides in	er exactly where th flammation. For th	e inflammation is in the is reason, the ESR is typ	e body or what is causing it. bically used in conjunction with other test suc
does not tell the health practitione cted by other conditions besides in	er exactly where th flammation. For th	e inflammation is in the is reason, the ESR is typ	e body or what is causing it.
	: 80 YRS/FEMALE : : : 12505470 : P.K.R JAIN HEALTHCARE INSTI : NASIRPUR, HISSAR ROAD, AMB ERYTHRO DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	: 80 YRS/FEMALE PA : 80 YRS/FEMALE RE : 12505470 CO : P.K.R JAIN HEALTHCARE INSTITUTE RE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYA Value Value ERYTHROCYTE SEDIME DIMENTATION RATE (ESR) 80 ^H SATION BY CAPILLARY PHOTOMETRY	: 80 YRS/FEMALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 12505470 COLLECTION DATE : 12505470 COLLECTION DATE : 12505470 RATE INSTITUTE REPORTING DATE : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Value Unit ERYTHROCYTE SEDIMENTATION RATE (D DIMENTATION RATE (ESR) 80 ^H mm/1st SATION BY CAPILLARY PHOTOMETRY

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

LER and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dovtram, motbuling, and vities and vit

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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BARCODE NO.	: 12505470	C	OLLECTION DATE	:06/Nov/202408:59AM
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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMI	BALA CITY - HAR	YANA	
Test Name		Value	Unit	Biological Reference interval
	CLINICA	AL CHEMISI	RY/BIOCHEMIST	N I
UREA: SERUM	KIE	ONEY FUNCTI 39.39	ON TEST (BASIC) mg/dL	10.00 - 50.00
by UREASE - GLUTAN	MATE DEHYDROGENASE (GLDH)	39.39	mg/dL	
by UREASE - GLUTAN CREATININE: SERI	IATE DEHYDROGENASE (GLDH) JM			10.00 - 50.00 0.40 - 1.20
by UREASE - GLUTAN CREATININE: SERI by ENZYMATIC, SPEC BLOOD UREA NITE	IATE DEHYDROGENASE (GLDH) JM	39.39	mg/dL	
by UREASE - GLUTAM CREATININE: SERI by ENZYMATIC, SPEC BLOOD UREA NITH by CALCULATED, SPE	IATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY ROGEN (BUN): SERUM	39.39 0.89	mg/dL mg/dL	0.40 - 1.20
by UREASE - GLUTAM CREATININE: SERV by ENZYMATIC, SPEC BLOOD UREA NITH by CALCULATED, SPE BLOOD UREA NITH RATIO: SERUM by CALCULATED, SPE	MATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM ECTROPHOTOMETERY 20GEN (BUN)/CREATININE ECTROPHOTOMETERY	39.39 0.89 18.41	mg/dL mg/dL mg/dL RATIO	0.40 - 1.20 7.0 - 25.0
by UREASE - GLUTAM CREATININE: SERV by ENZYMATIC, SPEC BLOOD UREA NITH by CALCULATED, SPE BLOOD UREA NITH RATIO: SERUM by CALCULATED, SPE UREA/CREATININ	MATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM ECTROPHOTOMETERY 20GEN (BUN)/CREATININE ECTROPHOTOMETERY	39.39 0.89 18.41	mg/dL mg/dL mg/dL	0.40 - 1.20 7.0 - 25.0





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	Y - HARYANA	
Test Name	Valu	e Unit	Biological Reference interval
1.Prerenal azotemia (glomerular filtration 2.Catabolic states wit 3.Gl hemorrhage. 4.High protein intake. 5.Impaired renal func 6.Excess protein intak burns, surgery, cachey 7.Urine reabsorption 8.Reduced muscle ma 9.Certain drugs (e.g. t INCREASED RATIO (>2 1.Postrenal azotemia s DECREASED RATIO (<1 1.Acute tubular necro 2.Low protein diet an 3.Severe liver disease 4.Other causes of dec 5.Repeated dialysis (t 6.Inherited hyperamir 7.SIADH (syndrome o 8.Pregnancy. DECREASED RATIO (<1 1.Phenacimide therap 2.Rhabdomyolysis (re 3.Muscular patients v INAPPROPIATE RATIO	th increased tissue breakdown. tion plus . te or production or tissue breakdown (e.g. ir tia, high fever). (e.g. ureterocolostomy) ass (subnormal creatinine production) etracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVELS: (BUN rises disproportionately more than creating uperimposed on renal disease. 10:1) WITH DECREASED BUN : biss. d starvation. treased urea synthesis. urea rather than creatinine diffuses out of endomenias (urea is virtually absent in blood) f inappropiate antidiuretic harmone) due to 10:1) WITH INCREASED CREATININE: by (accelerates conversion of creatine to creates endowed to the creatine). who develop renal failure.	nfection, GI bleeding, thyrotoxico BIGB eatinine) (e.g. obstructive uropat extracellular fluid). tubular secretion of urea. eatinine).	osis, Cushings syndrome, high protein diet,





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE REP	ORTING DATE	: 06/Nov/2024 05:50PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	/IBALA CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interval
	ELE	CTROLYTES COM	PLETE PROFILE	
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	142.8	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV		5.33 ^H	mmol/L	3.50 - 5.00
CHLORIDE: SERUN by ISE (ION SELECTIV		107.1	mmol/L	90.0 - 110.0
 Diuretics abuses. Salt loosing nephr Metabolic acidosi Adrenocortical iss Hepatic failure. HYPERNATREMIA (INI 1.Hyperapnea (Proloi 2.Diabetes insipidus Diabetic acidosis Cushings syndrome Dehydration 	s. uficiency . CREASED SODIUM LEVEL) CAUSES: nged)			
released in the blood	I. POTASSIUM LEVELS):-	l. 90% of potassium is	concentrated within t	he cells. When cells are damaged, potassiur





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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY -	HARYANA	

Test Name	Value	Unit	Biological Reference interval

4. Hemolysis of blood





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) MBBS , MD (PATHOLOGY)

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Test Name		Value	Unit	Biological Reference interval
				-
		ENDOCRIN		
	тнуро		DLOGY N TEST: TOTAL	-
				0.35 - 1.93
by сміа (Chemilumin ГНҮROXINE (T4): S	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTION	N TEST: TOTAL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSAY) SERUM	DID FUNCTION 1.25	N TEST: TOTAL ng/mL	
THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM MESCENT MICROPARTICLE IMMUNOASSAY) SERUM MESCENT MICROPARTICLE IMMUNOASSAY) NTING HORMONE (TSH): SERUM MESCENT MICROPARTICLE IMMUNOASSAY)	DID FUNCTION 1.25 7.73	N TEST: TOTAL ng/mL μgm/dL	4.87 - 12.60

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TS	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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	REFERRED BY	:	REGISTRATION DATE	: 06/Nov/2024 08:45 AM				
CLIENT CODE.: P.K.R JAIN HEALTHCARE INSTITUTEREPORTING DATE: 06/Nov/2024 04:17PM	BARCODE NO.	: 12505470	COLLECTION DATE	: 06/Nov/2024 08:59AM				
	CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	REPORTING DATE	:06/Nov/202404:17PM				
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA	CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA						

Test Name			Value	Unit		Biological Reference interva
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LE	VELS DURING PREG	SNANCY (μIU/mL)		
1st Trimester			0.10 - 2.50			
2nd Trimester			0.20 - 3.00			
3rd Trimester			0.30 - 4.10			

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

*** End Of Report ***





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

